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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/06413

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F01C1/10 F01C21/16 F04C15/00 F01C1/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F01C F04C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X          | US 1 486 682 A (PHILLIPS HARRY C)<br>11 March 1924 (1924-03-11)                    | 1,2,6-9,<br>11-15     |
| Y          | figures 2-5  | 3                     |
| Y          | page 2, line 19 - line 59  |                       |
| Y          | US 4 740 142 A (ROHS HANS-GUNTHER ET AL)<br>26 April 1988 (1988-04-26)             | 3                     |
| A          | figures 11-22  | 1                     |
|            | column 1, line 19 - line 22  |                       |
|            | column 3, line 15 - line 17  |                       |
|            | column 4, line 3 - column 5, line 56   |                       |
|            | ---<br>-/-   |                       |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

23 September 2003

Date of mailing of the international search report

30/09/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| A          | <p>PATENT ABSTRACTS OF JAPAN<br/> vol. 005, no. 068 (M-067),<br/> 8 May 1981 (1981-05-08)<br/> -&amp; JP 56 020788 A (FUJITA MINORU),<br/> 26 February 1981 (1981-02-26)<br/> abstract<br/> figures 1-4</p> <p>---</p> | 1                     |
| A          | <p>PATENT ABSTRACTS OF JAPAN<br/> vol. 001, no. 023 (M-011),<br/> 25 March 1977 (1977-03-25)<br/> -&amp; JP 51 137903 A (AISIN SEIKI CO LTD),<br/> 29 November 1976 (1976-11-29)<br/> figures 1-11</p> <p>-----</p>    | 1                     |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/06413

| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s)                                      | Publication<br>date                                  |
|---|---|---------------------|---|--|
| US 1486682                                | A | 11-03-1924          | NONE  |  |
| US 4740142                                | A | 26-04-1988          | DE 3528651 A1<br>EP 0221256 A1<br>JP 3003074 B<br>JP 62091679 A | 19-02-1987<br>13-05-1987<br>17-01-1991<br>27-04-1987 |
| JP 56020788                               | A | 26-02-1981          | NONE  |  |
| JP 51137903                               | A | 29-11-1976          | NONE  |  |